

Contents of Volume 15

(Abstracted/indexed in: Chemical Abstracts; Current Contents; Physical, Chemical & Earth Sciences; INSPEC; PASCAL/CNRS; MEDLINE)

Vol. 15 No. 1

Special Issue: Self Assembled Monolayers and Gradient Surfaces

Editorial	1
The interaction of proteins and cells with self-assembled monolayers of alkanethiolates on gold and silver E. Ostuni, L. Yan and G.M. Whitesides (Cambridge, MA, USA)	3
Potential distribution around a plate with a sigmoidal gradient in surface charge density H. Ohshima (Tokyo, Japan)	31
Feasibility of measuring antigen–antibody interaction forces using a scanning force microscope J.K. Stuart and V. Hlady (Salt Lake City, UT, USA)	37
Order/disorder gradients of <i>n</i> -alkanethiols on gold M. Lestelius, I. Engquist, P. Tengvall (Linköping, Sweden), M.K. Chaudhury (Bethlehem, PA, USA) and B. Liedberg (Linköping, Sweden)	57
The influence of surface chemistry on the control of cellular behavior: studies with a marine diatom and a wettability gradient B. Wigglesworth-Cooksey (Bozeman, MT, USA), H. van der Mei, H.J. Busscher (Groningen, The Netherlands) and K.E. Cooksey (Bozeman, MT, USA)	71
Comparison between wettability gradients made on gold and on Si/SiO ₂ substrates S. Welin-Klintström, M. Lestelius, B. Liedberg and P. Tengvall (Linköping, Sweden)	81
Protein adsorption on gradient surfaces on polyethylene prepared in a shielded gas plasma H.T. Spijker, R. Bos, W. van Oeveren, J. de Vries and H.J. Busscher (Groningen, The Netherlands)	89
The role of type 1 fimbriae in adhesion of <i>Escherichia coli</i> to hydrophilic and hydrophobic surfaces K. Otto, H. Elwing and M. Hermansson (Göteborg, Sweden)	99
Calendar	113
Instructions to Authors	115

Vol. 15 No. 2

Study on the formulation of o/w emulsion as carriers for lipophilic drugs P. Kan, Z.-B. Chen, R.-Y. Kung, C.-J. Lee and I.-M. Chu (Taiwan, ROC)	117
Interactions between whole blood and hydrophilic or hydrophobic glass surfaces: kinetics of cell adhesion N. Yayapour and H. Nygren (Goteborg, Sweden)	127
Immunosensing of photoimmobilized proteins on surface acoustic wave sensors T. Wessa, M. Rapp (Karlsruhe, Germany) and H. Sigrist (Neuchâtel, Switzerland)	139
Molecular lateral diffusion in model membrane systems Z.I. Lalchev (Sofia, Bulgaria) and A.R. Mackie (Norwich, UK)	147
Adsorbed protein layers at fluid interfaces: interactions, structure and surface rheology E. Dickinson (Leeds, UK)	161
Calendar	177

Vol. 15 Nos. 3–4

In honour of Professor A.W. Neumann J. Spelt, R. Miller and D. Vollhardt	179
Novel method to characterize the hydrolytic decomposition of biopolymer surfaces É. Kiss (Budapest, Hungary) and E.I. Vargha-Butler (Halifax, Canada)	181

Assessment of first-rate adsorption constants of platelet membrane proteins bearing liposomes by surface tension measurements	
F. Dalençon, V. Rosilio and A. Baszkin (Châtenay-Malabry, France)	195
Restoration of protein foam stability through electrostatic propylene glycol alginate-mediated protein-protein interactions	
D.K. Sarker and P.J. Wilde (Norwich, UK)	203
Homogeneity, electrical resistivity and lateral diffusion of lipid bilayers coupled to polyelectrolyte multilayers	
T. Cassier, A. Sinner, A. Offenhäuser (Mainz, Germany) and H. Möhwald (Potsdam, Germany)	215
Simultaneous monitoring of protein adsorption at the solid-liquid interface from sessile solution droplets by ellipsometry and axisymmetric drop shape analysis by profile	
J. Noordmans (Groningen, The Netherlands), H. Wormeester (Enschede, The Netherlands) and H.J. Busscher (Groningen, The Netherlands)	227
Interfacial characteristics of food emulsifiers (proteins and lipids) at the air-water interface	
J.M. Rodríguez Patino and M.R. Rodríguez Niño (Seville, Spain)	235
Wetting of β -casein layers adsorbed at the solid-aqueous interface	
T. Nylander (Lund, Sweden) and F. Tiberg (Stockholm, Sweden)	253
Interfacial dilational behaviour of adsorbed β -lactoglobulin layers at the different fluid interfaces	
R. Wüstneck, B. Moser (Teltow, Germany) and G. Muschiolik (Jena, Germany)	263
Stress relaxation behaviour of dipalmitoyl phosphatidylcholine monolayers spread on the surface of a pendant drop	
R. Wüstneck (Potsdam, Germany), N. Wüstneck (Berlin, Germany), D.O. Grigoriev (Petrodvoretz, Russia), U. Pison (Berlin, Germany) and R. Miller (Golm/Potsdam, Germany)	275
The structure and dynamic properties of mixed adsorption and penetration layers of α -dipalmitoylphosphatidylcholine/ β -lactoglobulin at water/fluid interfaces	
J. Li, H. Chen, J. Wu, J. Zhao (Beijing, People's Republic of China) and R. Miller (Berlin-Adlershof, Germany)	289
Interaction of rabbit C-reactive protein with phospholipid monolayers at air/water interface	
S.-f. Sui, C. Xiao and S.-X. Wang (Beijing, PR China)	297
Effects of mucin addition on the stability of oil-water emulsions	
L. Shi, C. Miller, K.D. Caldwell (Salt Lake City, UT, USA) and P. Valint (Rochester, NY, USA)	303
Study of molecular interactions between lipids and proteins using dynamic surface tension measurements: a review	
P. Chen (Waterloo, Canada), Z. Policova, C.R. Pace-Asciak and A.W. Neumann (Toronto, Canada)	313
Dynamic tension and adsorption behavior of aqueous lung surfactants	
S.Y. Park, R.E. Hannemann and E.I. Franses (West Lafayette, IN, USA)	325
Particles at the airway interfaces of the lung	
S. Schürch (Calgary, Canada), M. Geiser (Berne, Switzerland), M.M. Lee (Calgary, Canada) and P. Gehr (Berne, Switzerland)	339
Hydrophobicity and the gastrointestinal tract: methods of determination, its source and implications for bacterial adherence	
D.R. Mack (Omaha NE, USA) and P.M. Sherman (Toronto, Canada)	355
Surface hydrophobicity does not identify ulcerogenic <i>Helicobacter pylori</i> strains isolated from children and adolescents	
F.Y.H. Lin, Z. Policova, A. Wilhelm Neumann and P.M. Sherman (Toronto, Ont., Canada)	365
Calendar	371
Author Index	373
Subject Index	375
Volume Contents	377

